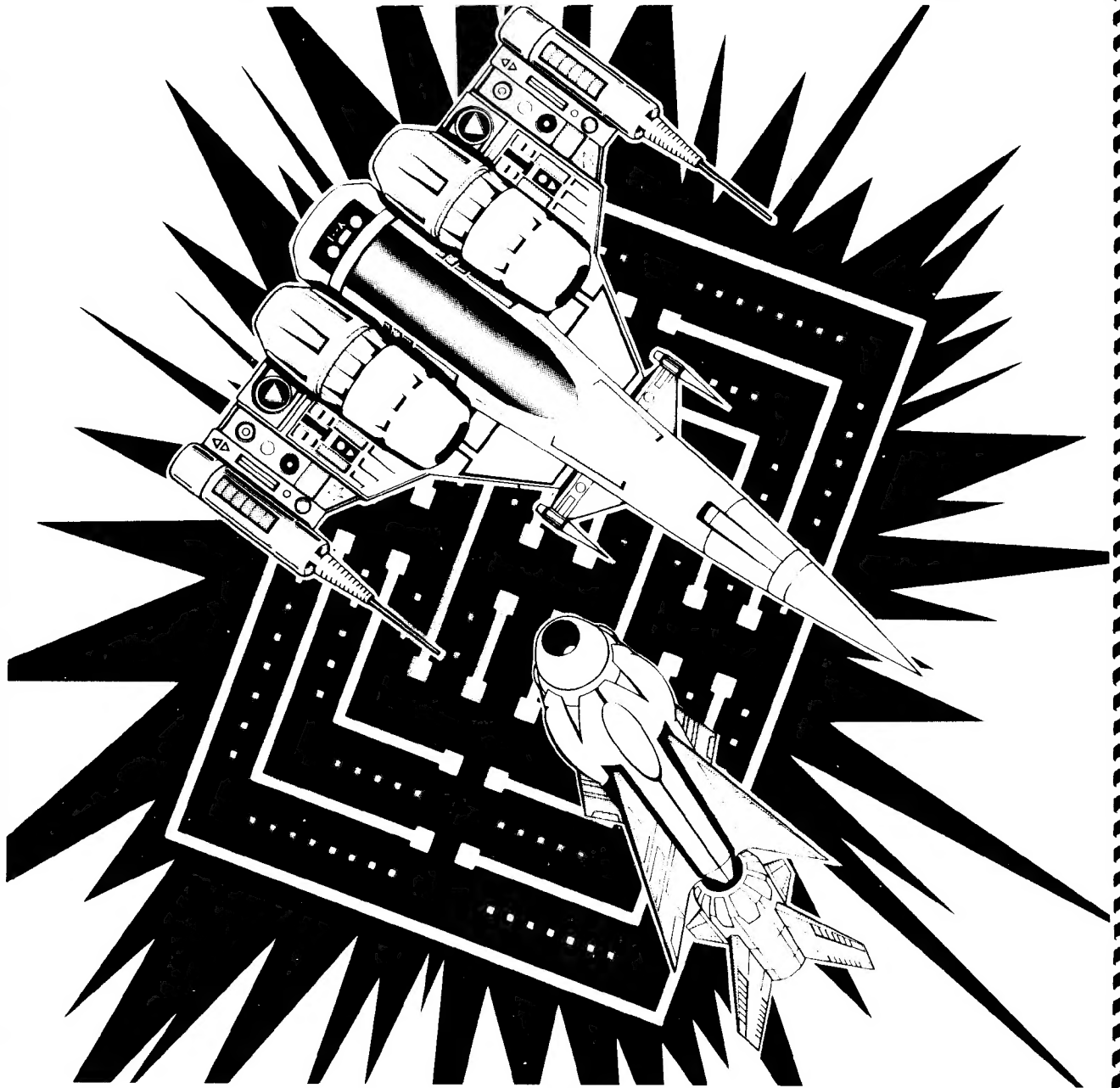


SPACE ^{COLOR} CHASER



AND PARTS CATALOG





TAITO CORPORATION

NOTE.1 THE RELATION BETWEEN COIN AND CREDIT

[illegible]

5. Playing Instruction

- o One or two players can play.
- o Insert coin(s), and select one or two player game.
 - 1 coin - 1 play ... 3 Spaceships (Adjustable)
 - 2 coins - 2 plays(1 - player game)
 - 1 play (2 - player game)
- o Spaceship (yellow)  and chaser Missile  will appear on the screen.
- o Control the Spaceship by using the Control Lever and clear dots (■) without colliding into oncoming chaser missiles.
- o By pushing the Thrust Button, the Spaceship can be some distance ahead of the Chaser Missile, but the fuel and bonus points decrease.
- o In two player mode, the play alternates between the two.

Functional Description of Game:

- o Points for a dot increase by 10 points per frame (up to 90 points) every time all dots in a frame have been created. (Bonus points will be added.)
- o The bonus points are 4,000 points at the game atart, and will decrease by pushing the Thrust Button.
- o Green Zone will appear on the course for accelerating the Chaser Missiles.
- o The second Chaser Missile will appear when the score reaches 10,000 points,
- o Game ends when the lest Spaceship is distroyed by the Chaser Missile.
- o The high-scorer's name can be registered on the screen. Any waony wording can be cancelled by pushing the Name Reset Button, but the high score will not be cancelled.

Method:

- (1) The alphabets ("A"-"Z"), "RUB", and "END" will be displayed on the screen. By moving the contrl lever, move the red underline to the alphabet one by one so that the high-scorer's name can by spelled.
- (2) An alphabet on the red underline can be resistered at a time on the screen by pushing the thrust button.

"RUB" ... If any wrong alphabet has been registered, move the red underline to the word "RUB" , and push the thrust button so that the alphabet will be canceled.

"END" ... When finishing the high-scorer's name registration move the red underline to the word "END" and push the thrust button.

- (3) The high-scorer's name register can mode within one and half minutes. After one and half minutes passed, the registration will be automalically stopped.
(In total. ten alphabets can be registered.)

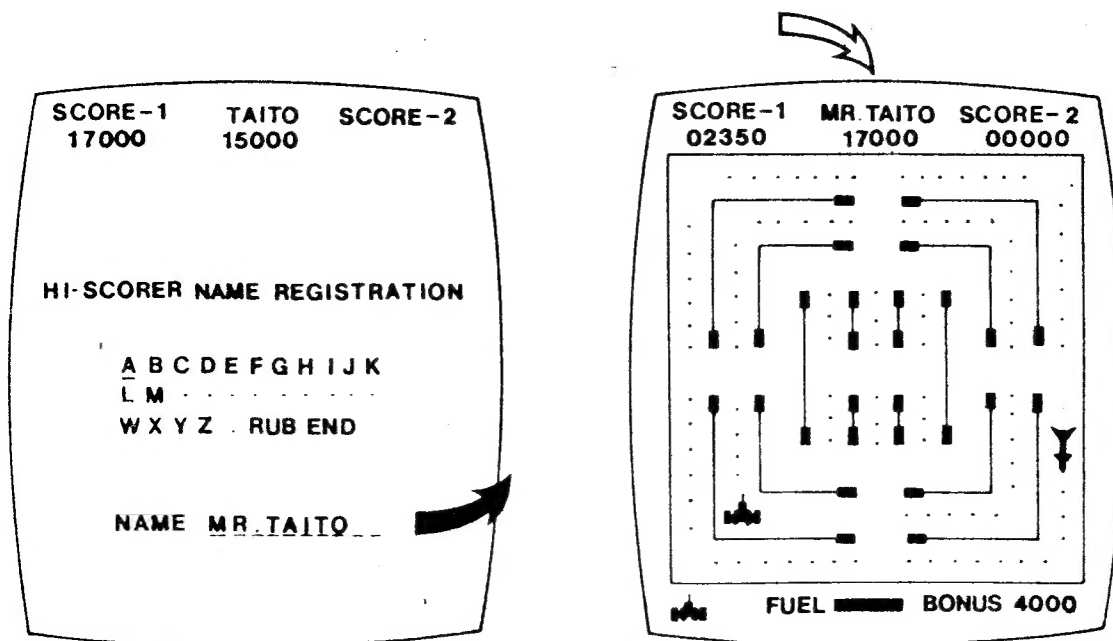


Fig.3

6. Adjustments on Switching Regulator PC Board

(See Fig. 4)

Caution: The line voltages should be set within the limit.
Failure to do so may result in destruction of the IC's.

o To check the output voltage, measure them on the G-connector or the T-connector.

(See the attaching cable Block Diagram NO. AAR00196.)

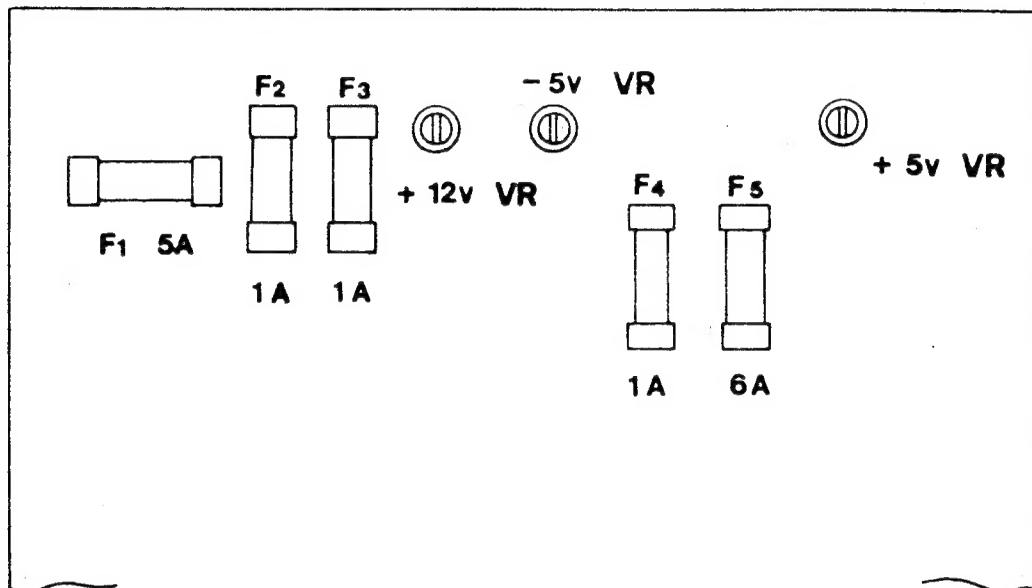


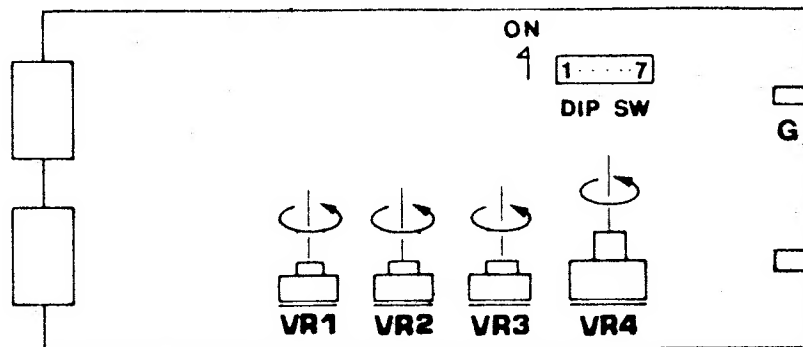
Fig. 4

- o +5V VR ... Pot for adjusting +5V DC line voltage.
(Adjustment range: +4.5V to +5.5V DC)
Set approx. +5V.
- o -5V VR ... Pot for adjusting -5V DC line voltage
(adjustable range: -5.5V to -4.5V DC)
Set approx. -5V.

(When the +5V line has no load, this -5V voltage is not present on the line.)
- o +12V VR ... Pot for adjusting +5V DC line voltage
(Adjustable range: +10.8V to +13.2V DC)
Set approx. +12V.

7. Adjustments on Game PC Board (See Fig. 5 and Table 1)

- o To decrease the sound, turn each pot (VR1 -VR4) to the direction shown below with arrowheads.



Fig,5

VR1 ... Pot for adjusting the music sound

VR2 ... Pot for adjusting the effect sound and the explosion sound

VR3 ... Pot for adjusting the dot - hitting sound

VR4 ... Pot for adjusting the total sound

Change-over of DIP Switches;

- o SW1,SW2 ..Switches for changing the number of spaceships

SW 1	ON	OFF	ON	OFF
SW 2	ON	ON	OFF	OFF
Number of Spaceships	3	4	5	6

Table.1

These switches have been preset at "ON" position at the factory. (3 spaceships at the game start)

- o SW3-SW6 ..Switches for adjusting solid-state modules

These switches are for factory adjustments, and all of them should be set at "ON" position.

- o SW7 Switch for rotating images on the screen

When the switch is set at "OFF" position, the images on the screen will be rotated

This switch should be set at "ON" position.

8. Adjustments on Color Video Monitor (See Fig. 6)

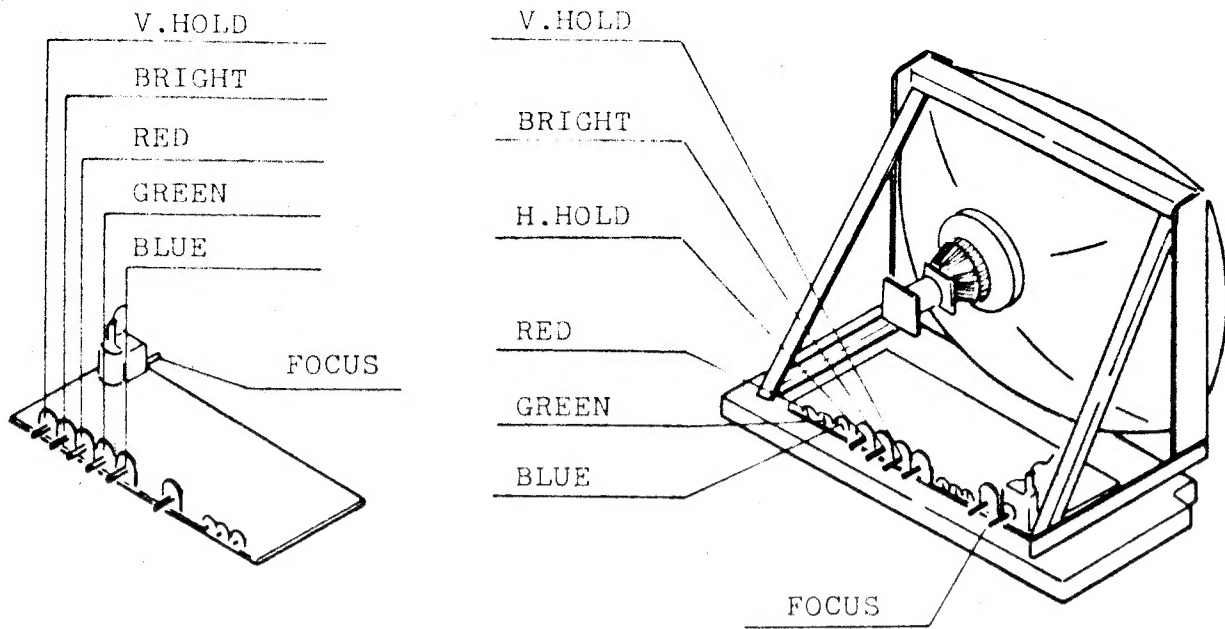


Fig. 6

The video monitor is properly adjusted before shipping, however, if necessary, readjust as follows:

Caution: Careful adjustments are required for the H.Hold and the V.Hold adjustments.

- o Horizontal Hold

Adjust the H.HOLD control if the picture is warped or broken into diagonal lines.

- o Vertical Hold

Adjust the V.HOLD control if the picture rolls vertically across the screen.

- o Screen Brightness

Adjust the BRIGHT control to keep the screen clear.

- o FOCUS ... Screen Focus Control

- o RED, GREEN, and BLUE ... Color Controls

Note: (1) Color aberration may occur depending on the setting condition of the machine. In that case, use a degussing device. Keep magnet away from the screen, otherwise, it may result in color aberration.

(2) The color video monitor of Taito "SPACE CHASER" is for exclusive use, therefore, it can not be replaced with that of other models.

9. Adjustments of Supply Voltage (See Fig. 7)

If the voltage of the power supply is low, the picture on the screen sometimes gluckers. In that case, change the connection of the power transformer terminals in the cabinet. This adjustment is obtained by using the change-over switch.

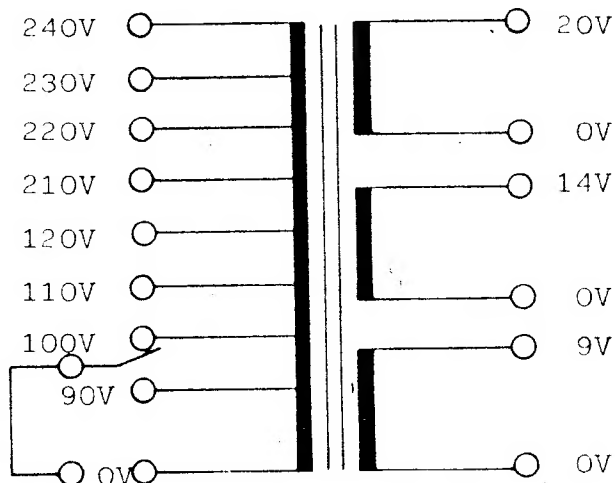


Fig. 7

10. Typical Picture During Play (See Fig.8)

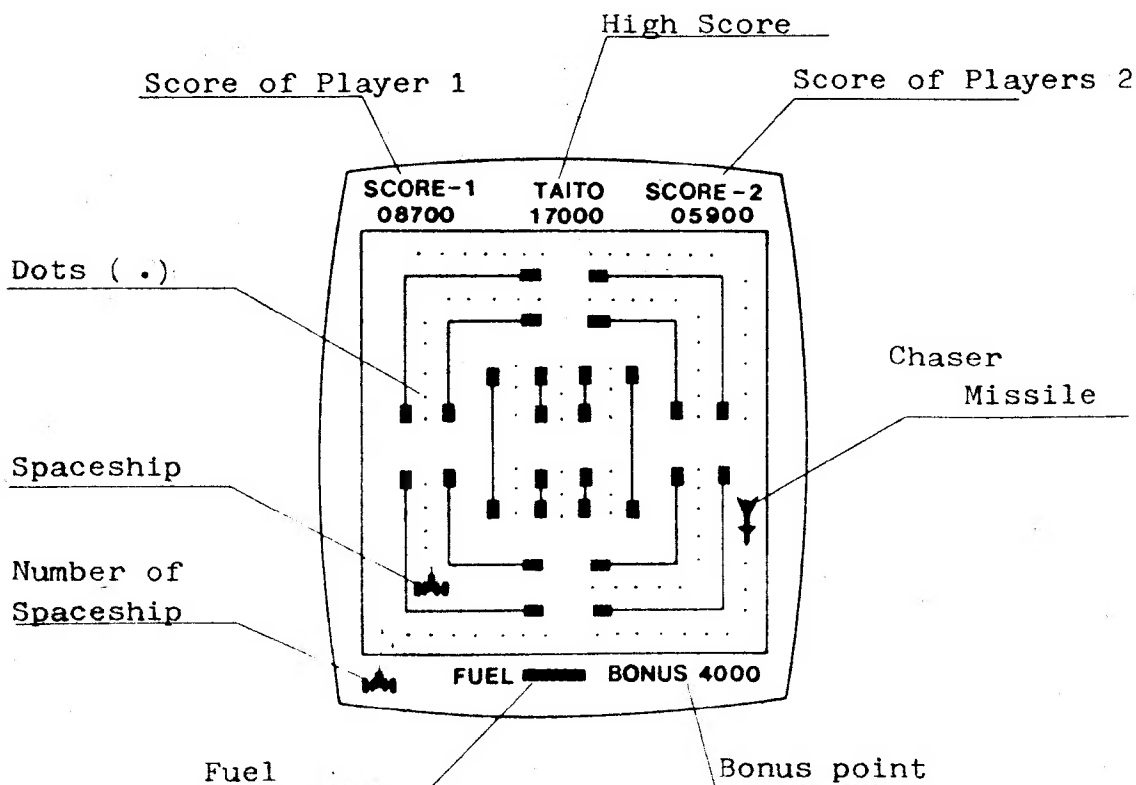
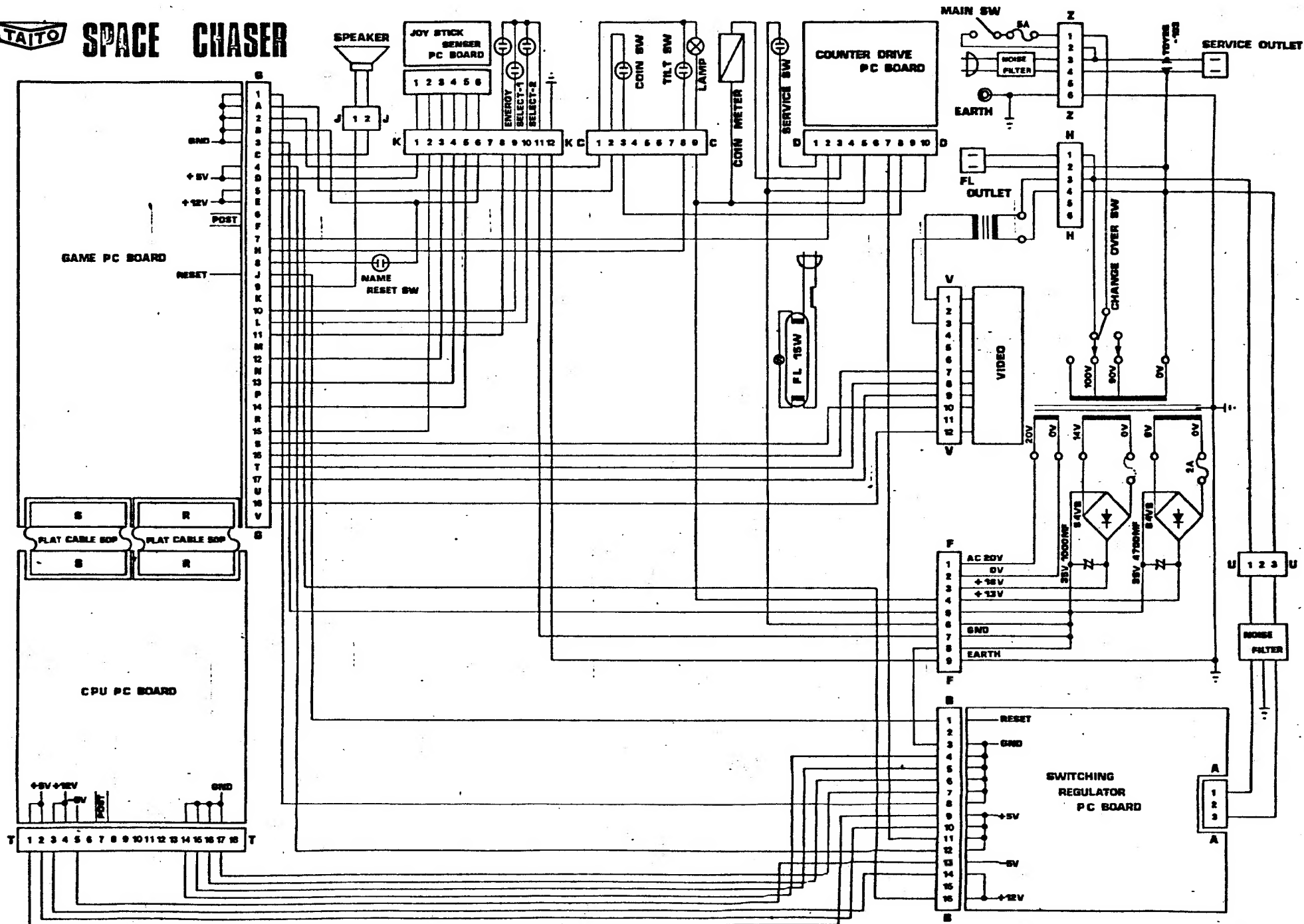
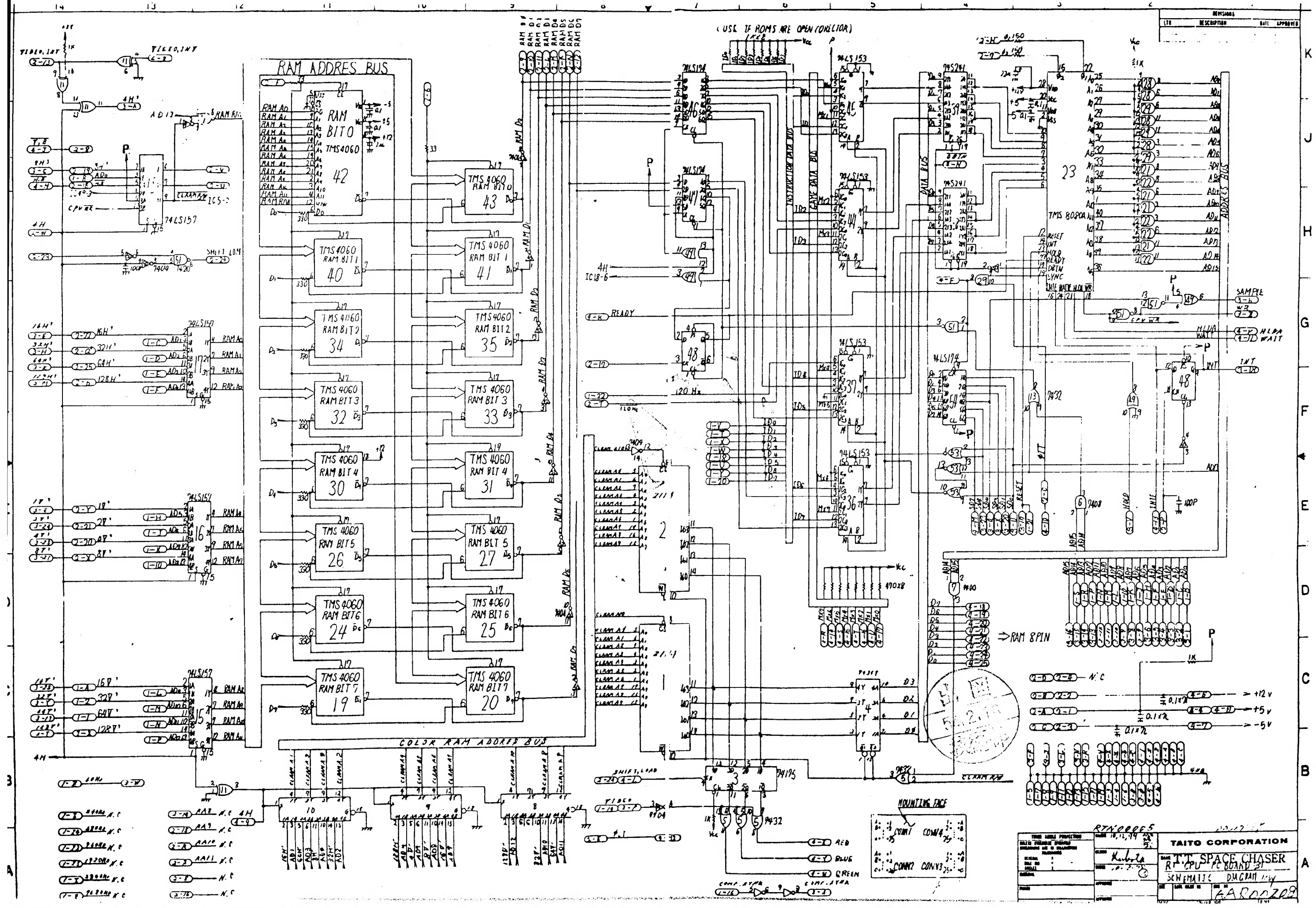


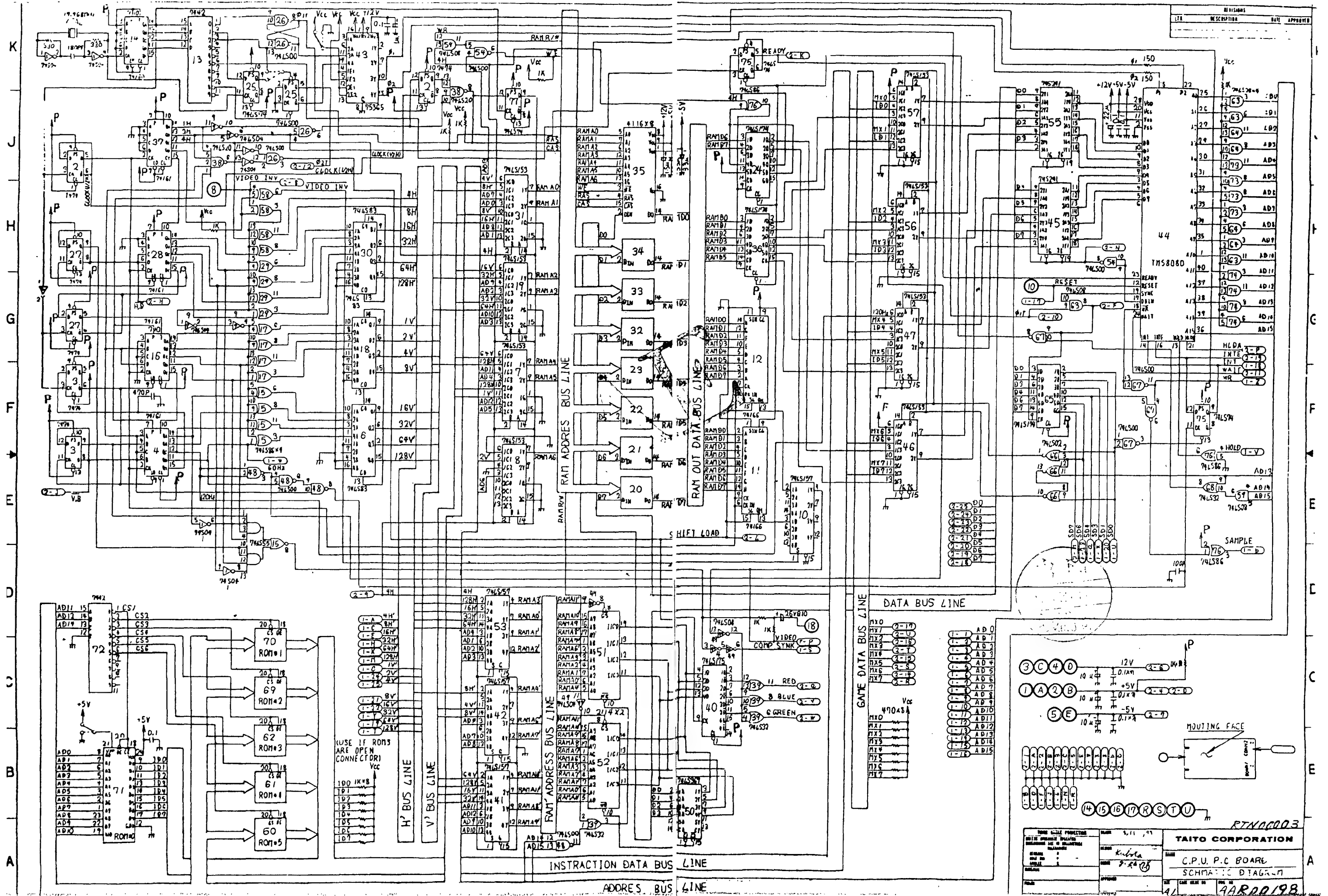
Fig. 8

TAITO SPACE CHASER

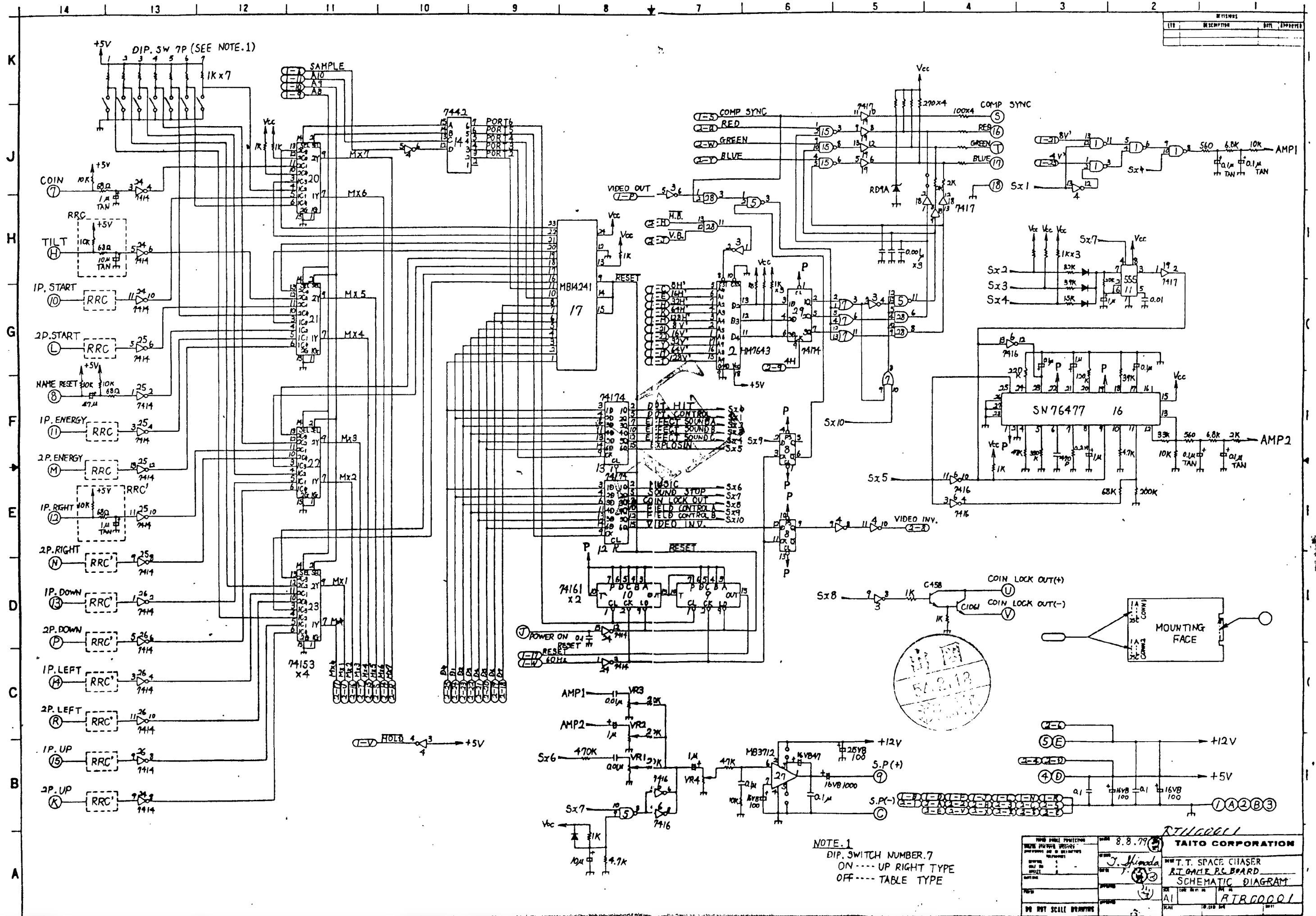




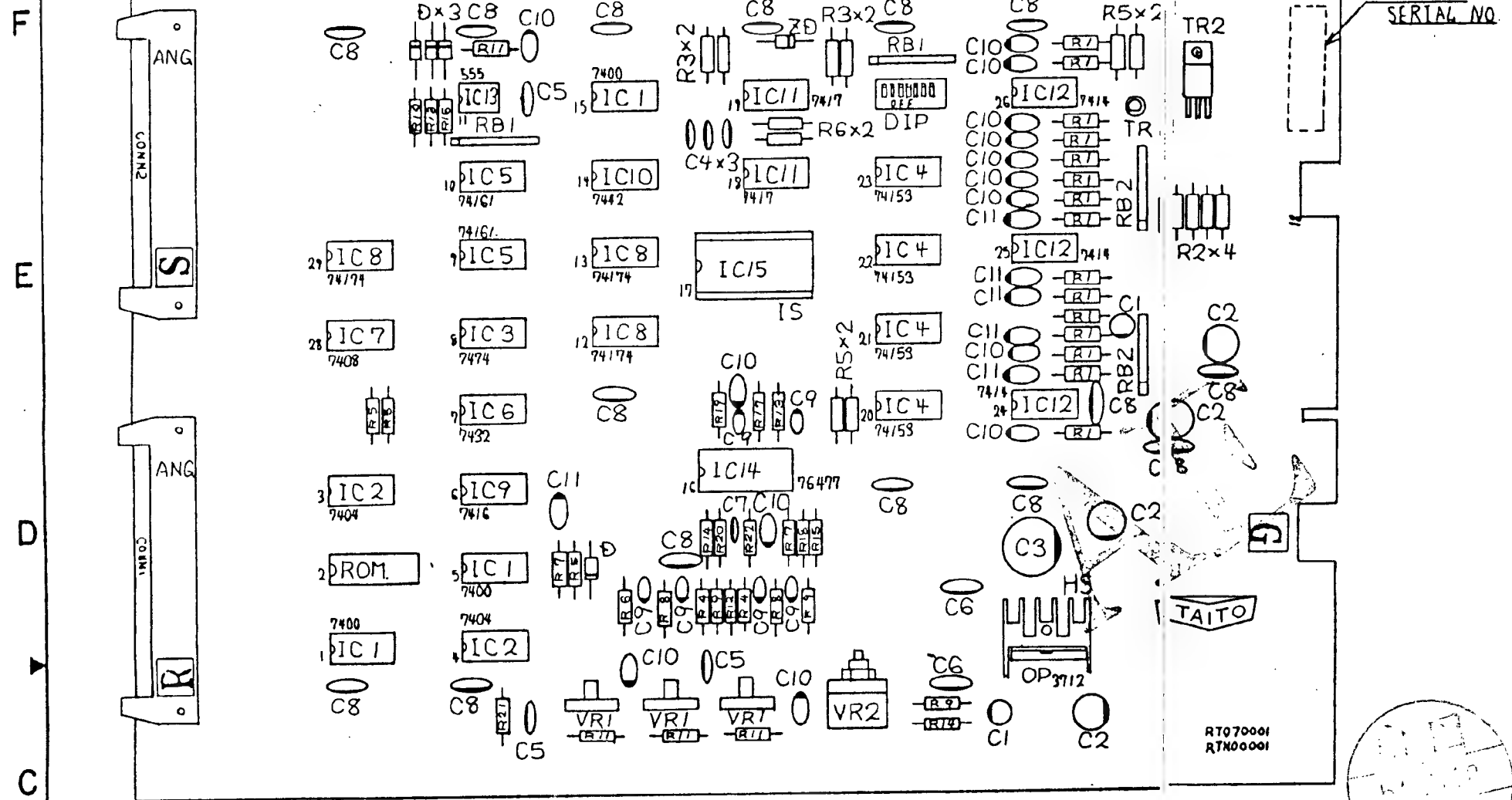
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RT-CPU PC BOARD 31	
SCHEMATIC DIAGRAM	
DATE: 10/1/79	
DRAWN: K. KUBOTA	
CHECKED: K. KUBOTA	
APPROVED: K. KUBOTA	
REVISION: 1.0	



TITLE		DATE	APPROVED
C.P.U. P.C. BOARD		3.11.87	
SCHEMATIC DIAGRAM			
DRAWN		DATE	APPROVED
K. KITA		3.11.87	
CHECKED		DATE	APPROVED
T. KITA		3.11.87	
REVISION		DATE	APPROVED
1		3.11.87	



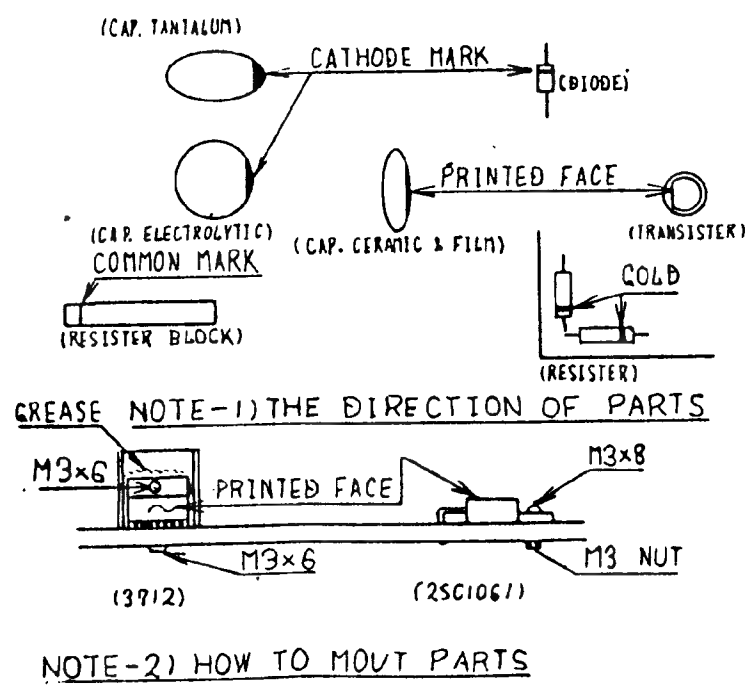
REVISIONS			
LTN	DESCRIPTION	DATE	APPROVED



50	R 6	AAT 51772	RES., CARBON, 2K0HM 1/4W ±5%	3
49	R 5	51765	1K	7
48	R 4	51759	560	2
47	R 3	51751	270	4
46	R 2	51741	100	4
45	R 1	51737	RES., CARBON, 680HM 1/4W ±5%	15
44	C11	41430	CAP., TANTALUM, SSG25-10F	6
43	C10	41436	SSG35-1F	14
42	C 9	41431	TANTALUM, SSG35-OR1F	6
41	C 8	41672	CERAMIC, SC45F-1H-1042 50V	15
40	C 7	41334	CERAMIC, DT-205 470PF 50V	1
39	C 6	41244	FILM, TDY-1H-104	2
38	C 5	41238	TDY-1H-103	3
37	C 4	41232	FILM, TDY-1H-102	3
36	C 3	41040	ELECTROLYTIC, 25VB-1000	1
35	C 2	41036	25VB-100	4
34	C 1	AAT 41035	CAP., ELECTROLYTIC, 25VB-47	2
33	ROM	RT0 90006	P-ROM, RT06 (4x)	1
32	IC15	AAT 37001	CUSTOM I.C., MB14241	1
31	IC14	32141	TTL I.C., 76477	1
30	IC13	32019	NE555V	1
29	IC12	32054	7414	3
28	IC11	32049	7417	2
27	IC10	32039	7442	1
26	IC 9	32033	7416	1
25	IC 8	32029	74174	3
24	IC 7	32023	7408	1
23	IC 6	32021	7432	1
22	IC 5	32018	74161	2
21	IC 4	32017	74153	4
20	IC 3	32011	7474	1
19	IC 2	32003	7404	2
18	IC 1	AAT 32001	TTL I.C., 7400	3
17			PAN HD SCREW, M3x6	1
16	OP	AAT 31042	OP AMPLIFIER, MB3712	1
15	ZD	13028	ZENER DIODE, RD-9A	1
14	D	AAT 12025	DIODE, 1S1588	4
13			NUT, M3	1
12			PAN HD SCREW, M3x8	1
11	TR2	AAT 11030	TRANSISTOR, 2SC1061	1
10	TR1	AAT 11020	TRANSISTOR, 2SC372	1
9	IS	AAO 55787	I.C. SOCKET, 24PIN	1
8	ANG	55154	ANGLE PIN HEADER, PS-50PA	2
7	DIP	52560	DIP SWITCH, DSS-7	1
6	S	17662	CONNECTOR STICKER, S	1
5	R	17659	CONNECTOR STICKER, R	1
4	G	AAO 17632	CONNECTOR STICKER, G	1
3			PAN HD SCREW, M3x6	1
2	HS	AAO 14520	HEAT SINK	1
1		RT0 70001	RT-GAME P.C BOARD	1

TITMO ANGLE PROJECTION		DATE 8.23.79	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		DESIGNER K. K. K.	
TOLERANCES		CHECK S. S.	
GENERAL	±0.1	APPROVED	
SOLE DIA	±0.05	APPROVED	
ANGLES	±0.5	APPROVED	
FINISH		APPROVED	
DO NOT SCALE DRAWING		P. 1	

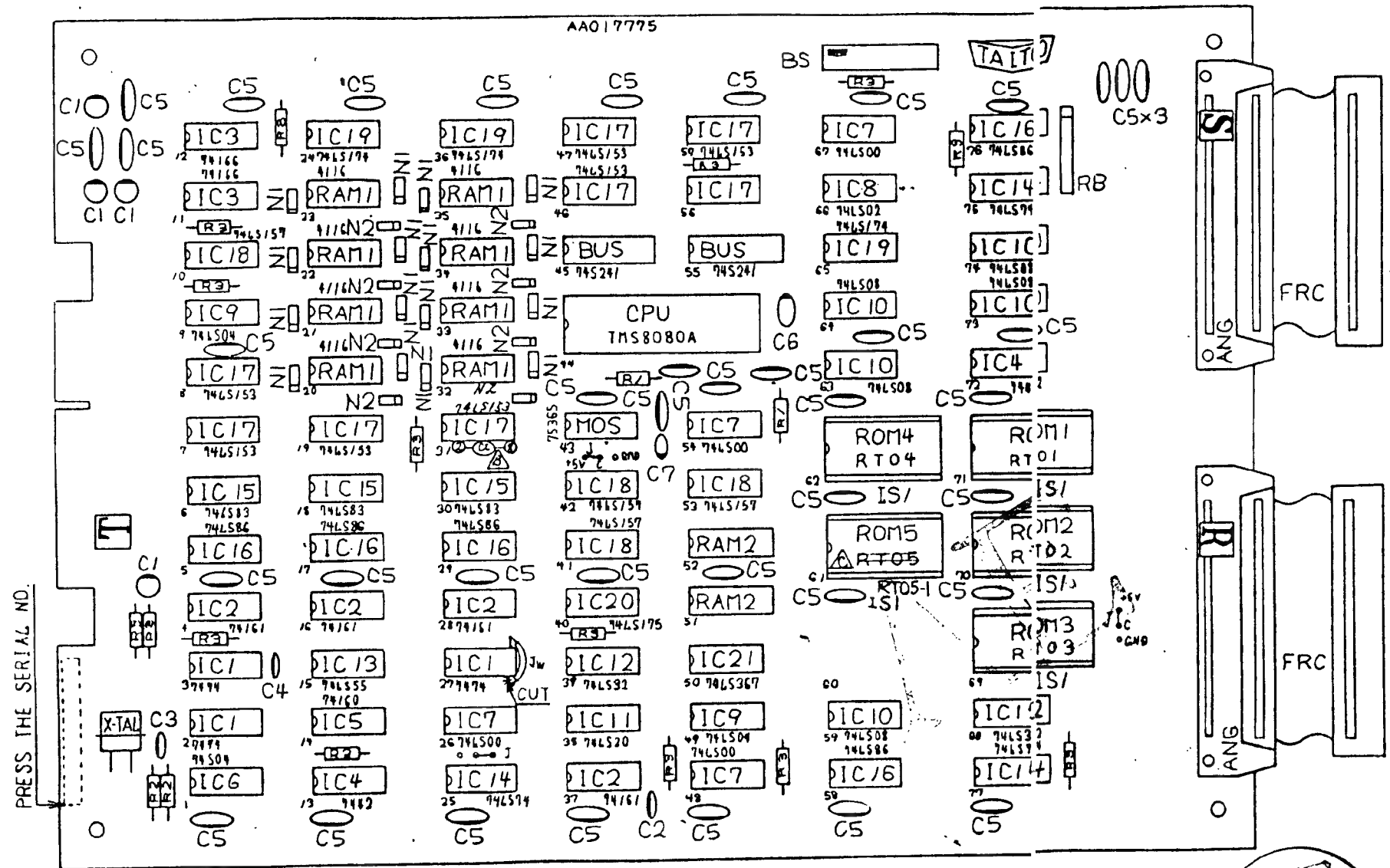
TAITO CORPORATION			
NAME T.T. SPACE CHASER			
RT-GAME P.C BOARD Assy			
SIZE	DATE	REV	NO
A2			RTN 00001
SCALE	MILLIMETER		UNIT



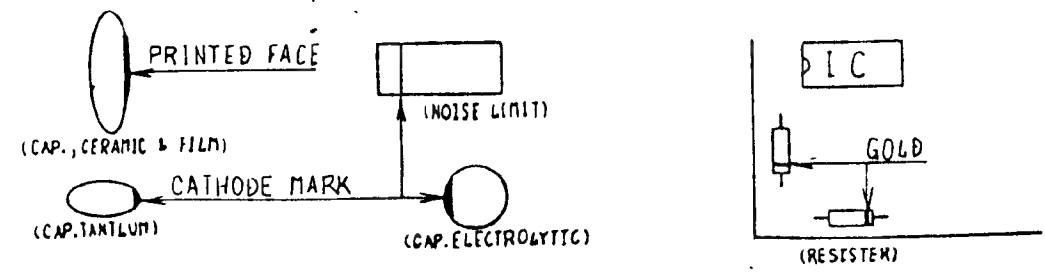
70	RB2	AAT 55039	RESISTOR BLOCK, 10K0HM 8elements	2
69	RB1	55036	RESISTOR BLOCK, 1K0HM 8elements	2
68	VR2	53047	VARIABLE RESISTOR, B-50K RV/6YP	1
67	VR1	53041	VARIABLE RESISTOR, B-50K	3
66	R22	51845	RES., CARBON, 2.2K0HM 1/4W ±5%	1
65	R21	51829	470K	1
64	R20	51825	330K	1
63	R19	51821	220K	1
62	R18	51820	200K	1
61	R17	51815	120K	1
60	R16	51811	82K	1
59	R15	51809	68K	1
58	R14	51805	47K	2
57	R13	51803	39K	2
56	R12	51801	33K	1
55	R11	51796	20K	4
54	R10	51793	15K	1
53	R 9	51789	10K	3
52	R 8	51785	6.8K	2
51	R 7	AAT 51782	RES., CARBON, 4.7K0HM 1/4W ±5%	2

NOTE-2) HOW TO MOUNT PARTS

REVISIONS			
LTN	DESCRIPTION	DATE	APPROVED
Δ P-11-7	1 POINT	10.9.91	Kulota
Δ P-11-10	2 POINT	10.9.91	Kulota
Δ P-11-18	3 POINT	11.5.91	Kulota



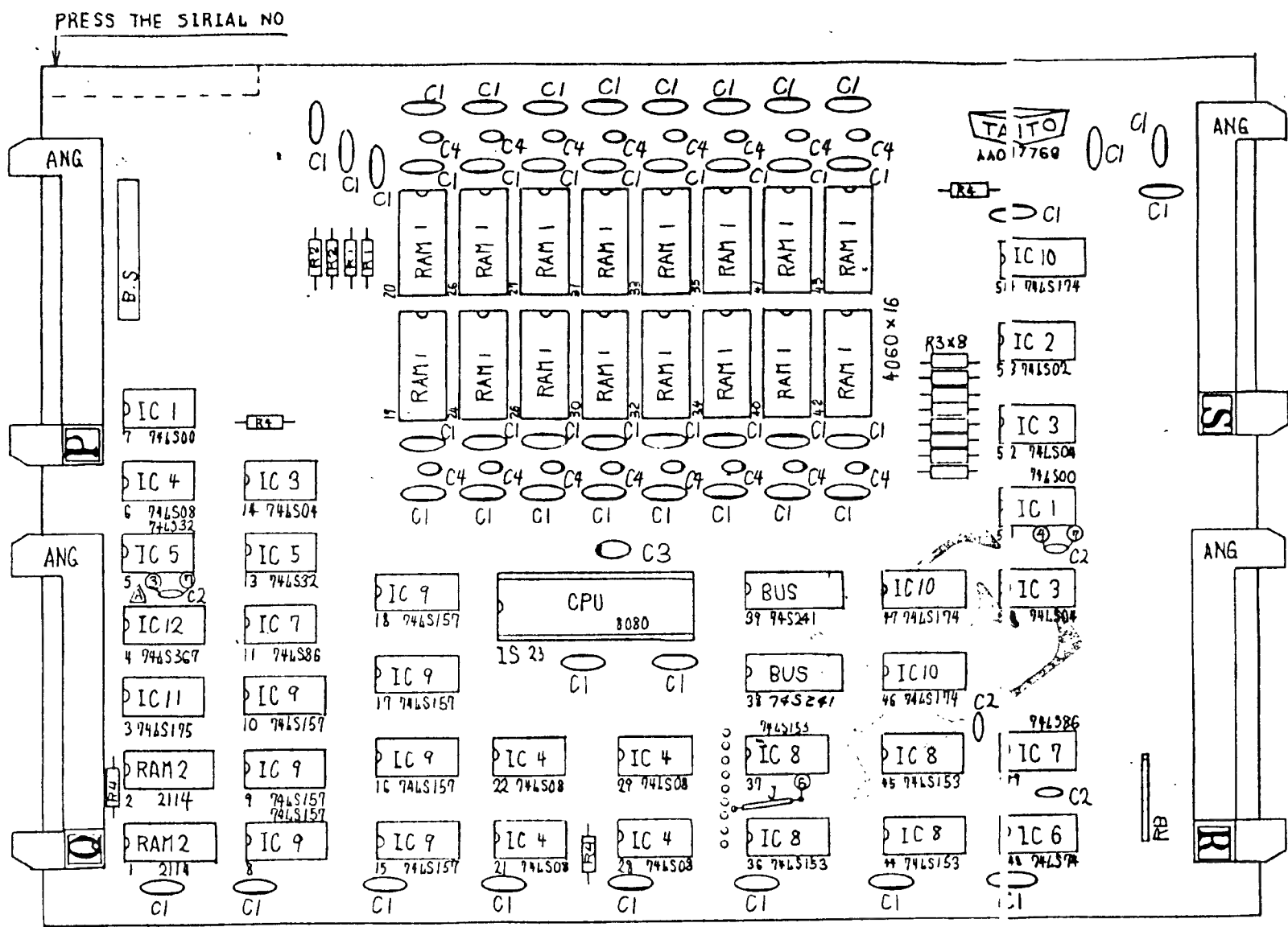
ITEM NO.	SYM	QTY	UNIT	DESCRIPTION	QTY
50	RB	AAT 55041	RESISTOR BLOCK 4700ohm 8elements	1	
49	R3	51765	RES. CARBON, 1Kohm ±5% 1/4W	15	
48	R2	51753	RES. CARBON, 330	2	
47	R1	51745	RES. CARBON, 150ohm ±5% 1/4W	2	
46	C7	41425	CAP. TANTALUM, SSG25-1F	1	
45	C6	41424	CAP. TANTALUM, SSG16-22F	1	
44	C5	41672	CERAMIC, SC45FH1042 50V 0.1μF	39	
43	C4	41334	DT-205 470PF 50V	1	
42	C3	41324	DT-203 180PF 50V	1	
41	C2	41318	CERAMIC, DT-201 100PF 50V	2	
40	C1	AAT 41032	CAP. ELECTROLYTIC, 25VB-10	4	
39	ROM5	RTO 90005	P-ROM, RTO5, 16K	0	F
38	ROM4	90004	RTO4	1	
37	ROM3	90003	RTO3	1	
36	ROM2	90002	RTO2	1	
35	ROM1	RTO 90001	P-ROM, RTO1, 16K	1	
34	MOS	AAT 35002	MOS DRIVER, SN75365	1	
33	BUS	35001	BUS DRIVER, 74S241	2	
32	CPU	34001	C.P.U., TMS8080A	1	
31	IC21	33203	L.S. I.C., 74LS367	1	
30	IC20	33128	74LS175	1	
29	IC19	33127	74LS174	3	D
28	IC18	33112	74LS157	4	
27	IC17	33108	74LS153	8	
26	IC16	33062	74LS86	5	
25	IC15	33059	74LS83	3	
24	IC14	33051	74LS74	3	
23	IC13	33043	74LS55	1	
22	IC12	33027	74LS32	2	
21	IC11	33019	74LS20	1	
20	IC10	33009	74LS08	5	
19	IC9	33005	74LS04	2	
18	IC8	33003	74LS02	1	C
17	IC7	33001	L.S. I.C., 74LS00	4	
16	RAM2	32156	STATIC RAM, 2114-4	2	
15	RAM1	32153	DYNAMIC RAM, TMS4116-25	8	
14	IC6	38003	TTL I.C., 74S04	1	
13	IC5	32086	74160	1	
12	IC4	32039	7442	2	
11	IC3	32028	74166	2	
10	IC2	32018	74161	4	
9	IC1	AAT 32011	TTL I.C., 7474	3	
8	X-TAL	AAO 69539	X-TAL, 19.968MHz	1	
7	ISI	55787	I.C. SOCKET, 24PIN	5	B
6	ANG	55154	ANGLE PIN HEADER, PS-50PA	2	
5	T	17665	CONNECTOR STICKER, T	1	
4	S	17662	CONNECTOR STICKER, S	1	
3	R	AAO 17659	CONNECTOR STICKER, R	1	
2	BS		P.C BOARD STICKER	1	
1		AAO 17775	C.P.U. P.C BOARD	1	



NOTE) THE DIRECTION OF PARTS

Δ 58	ROM5	RTO 90032	P-ROM, RTO 5-1	1	
Δ 57		AAT 41334	CAP. CERAMIC, 470 PF (REPAIR PARTS)	1	
56					
55	Jw		JUMPER WIRE, Y, 100		
54	J		TINNED COPPER WIRE 10200		
53	FRC	AAR 00215	F.P.C.-Harness Assy 50P	2	
52	N2	AAT 61020	NOISE LIMIT, CS90E-1E-1R500-R58	8	
51	N1	AAT 61019	NOISE LIMIT, CS90E-1A-3R300-R58	16	
50	SYM		NOMENCLATURE OR DESCRIPTION	3	

TWO ANGLE PROJECTION		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS (TOLERANCES)	DATE 7.31.79	NAME T.T. SPACE CHASER	RTN 00003
GENERAL DIM. DIA. ANGLE	REVISION 1	CODE UNIT NO.	DATE
DATE	APPROVED	SCALE	SHEET
DO NOT SCALE DRAWING			



PRINTED FACE
(CAP., CERAMIC & TANTLUM)

NOTE-1) PRINTED FACE

CATHODE MARK
(CAP. TANTLUM)

NOTE-2) CATHODE MARK

NOTE-3) RESISTOR BLOCK

NOTE-4) RESISTOR CARBON

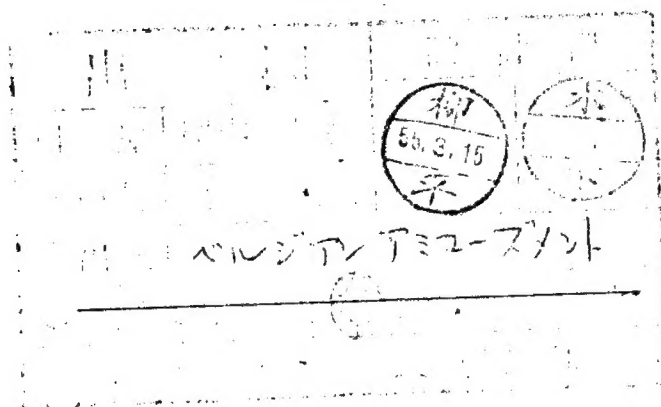
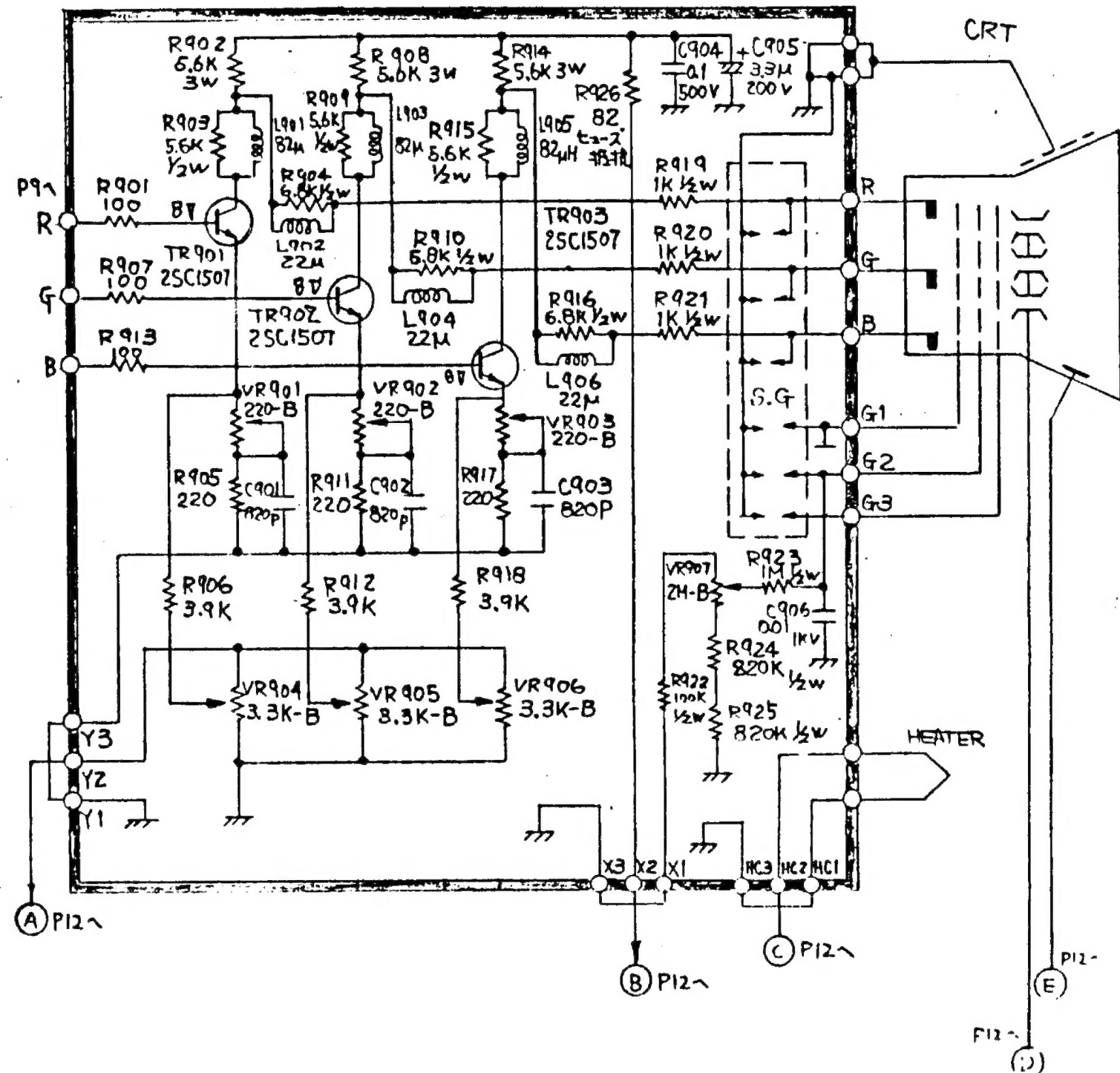
REVISIONS			
LTB	DESCRIPTION	DATE	APPROVED

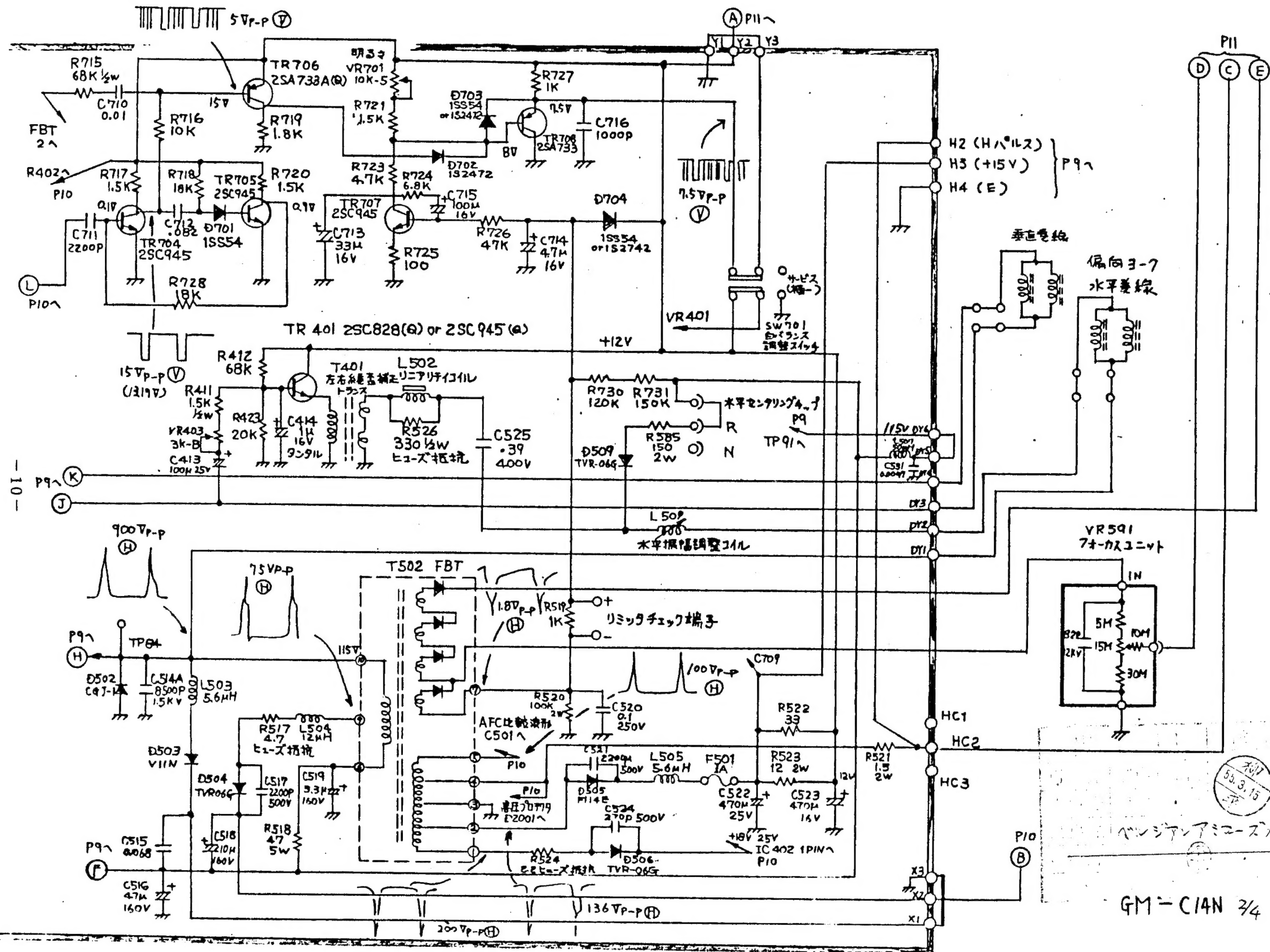
47				
46				
45				
44				
43				
42				
41				
40				
39				
38				
37				
36				
35				
34	J	JUMPER WIRE	Y 1/4 100um	
33	RB	AAT 55041	RESISTOR BLOCK, 470ohm 8elements	1
32	R4	51765	RES. CARBON, 1K ohm 1/4W ±5%	4
31	R3	51753	330 ohm	8
30	R2	51745	150ohm	2
29	R1	51729	RES. CARBON, 330hm 1/4W ±5%	2
28	C4	41425	CAP. TANTLUM, SSG25-1F	16
27	C3	41424	TANTLUM, SSG16-22F	1
26	C2	41318	CERAMIC, DT-201 100PF 50V	34
25	C1	41244	CAP. FILM, TDY-1H-104	49
24	BUS	35001	BUS DRIVER, 74S241	2
23	CPU	34001	C.P.U, TMS8080	1
22	IC12	33203	LS I.C, 74LS367	1
21	IC11	33128	74LS175	1
20	IC10	33127	74LS174	3
19	IC9	33112	74LS157	7
18	IC8	33108	74LS153	4
17	IC7	33062	74LS86	2
16	IC6	33051	74LS74	1
15	IC5	33027	74LS32	2
14	IC4	33009	74LS08	5
13	IC3	33005	74LS04	3
12	IC2	33003	74LS02	1
11	IC1	33001	LS I.C, 74LS00	2
10	RAM2	32156	STATIC RAM, 2114N	2
9	RAM1	AAT 32091	DYNAMIC RAM, TMS4060NL(4K)	16
8	IS	AAO 55812	I.C SOCKET, 40PIN	1
7	ANG	55154	ANGLE PIN HEADER, PS-50PA	4
6	S	17662	CONNECTOR STICKER, S	1
5	R	17659	CONNECTOR STICKER, R	1
4	Q	17656	CONNECTOR STICKER, Q	1
3	P	AAO 17653	CONNECTOR STICKER, P	1
2	BS	RTO 10020	P.C BOARD STICKER	1
1		AAO 17769	C.P.U P.C BOARD (B)	1

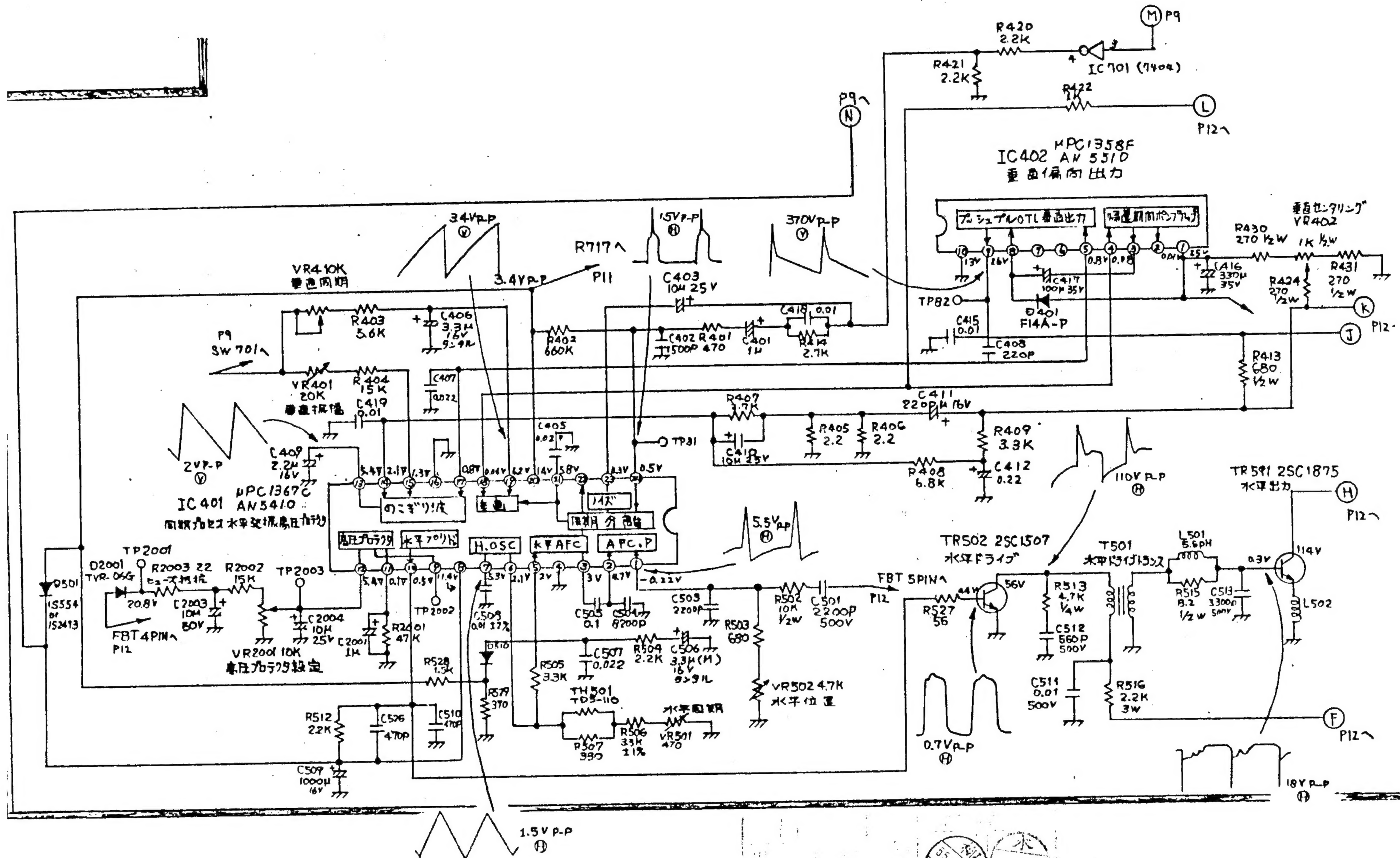
THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES		PARTS LIST	
DRAWN 10, 5, 79		TAITO CORPORATION	
CHECKED		NAME T.T. SPACE CHASER	
APPROVED		R.T. C.P.U P.C BOARD(B) Assy	
DATE		SCALE	
DO NOT SCALE DRAWING		SHEET	

GM-C14N 1/4

TR902, TR903, TR901 <3L7A->

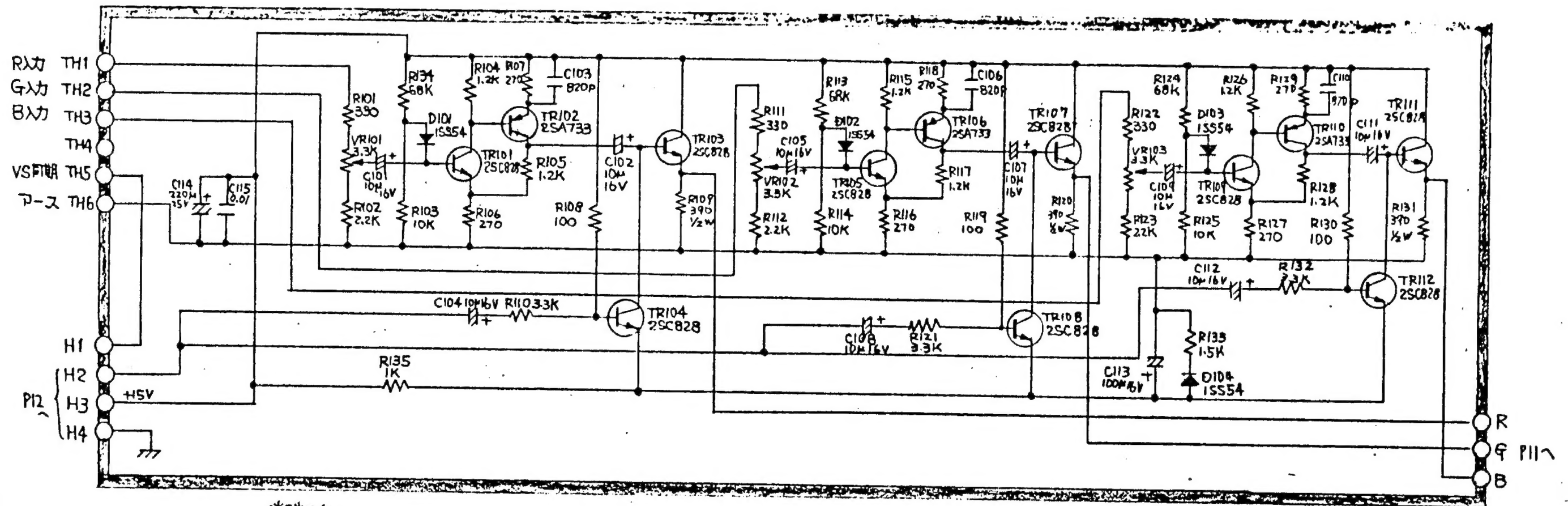






水平位置調整

GM-C14N 3/4



- 12 -

